



EXPRESS MAIL
ER 525325196 US

Title: GOLF CLUBHEAD MARKINGS, METHODS AND TOOLS

Re: Application Serial No. 10/692,517

Filing Date: 10/24/2003

Inventor's Name: BERNARD J. PATSKY

Attorney's. Doc. No.: UTL 03-032

Art Unit: 3711

Examiner: Blau, Stephen Luther

COMPLETE LISTING OF ALL CLAIMS (37 CFR 1.121)

CLAIMS

Claim 1.(Withdrawn)

Method to locate Parallax Corrected Sweet Spot Target Line, on a Club Head

Component, said Club Head Component having a bottom surface, top surface, face surface and hosel, but no grip or shaft or other components, comprising the following steps:

1. first, locate a level platform;
2. next locate conventional Club Head Component center of gravity, normally referred to as the Sweet Spot, said Sweet Spot having an axis of rotation, on a Club Head Component by use of a balance support device, said balance support device being from the group of devices that can be positioned to have an upward extending surface with cross sectional area small enough that it forms a point of balance, by the following steps;
 - a.. position the balance support device, on the level platform, in order that the upward extending surface is aimed in a vertical direction;
 - b. next, place the Club Head Component on the balance support device upward extending surface with the Club Head Component face surface facing downward;

c.. next, move the Club Head Component around on the balance support device upward extending surface until the Club Head Component is balanced;

d. next rotate the Club Head Component to confirm that the Club Head Component is balanced at the Sweet Spot Axis;

e. next, mark the Club Head Component face surface at the point of contact with the balance support device, when the Club Head Component is balanced, being the conventional Club Head Component center of gravity, normally referred to as the Sweet Spot;

3. next locate a shaft, place the Club Head Component with bottom surface resting on the Level Platform and insert said shaft into Club Head Component at hosel, then using a Conventional Instrument To Measure Angle Of Slope Above The Horizontal, said Instrument being a standard off the shelf item, adjust Club Head Component to have center line of shaft, at angle of intended use, again using said Instrument place said Instrument against Club Head Component face surface at point marked as Sweet Spot and mark the point that is vertically above the Sweet Spot at intersection of Club Head Component face surface and Club Head Component top surface, being Incorrect Target Line Front Point;

4. next return the Club Head Component to balance position with the Sweet Spot on balance support device upward extending surface and using said Instrument, place said Instrument at Incorrect Target Line Front Point, as marked, and draw a line on Club Head Component top surface, said line being the Incorrect Sweet Spot Target Line;

5. next adjust Club Head Component to have center line of shaft at angle of intended use, using said Instrument place said Instrument against Club Head Component face surface at point marked as Sweet Spot, adjust the Instrument to be at Correct Sight Line angle, said Correct

Sight Line Angle being to correct for Parallax and mark the point, that is diagonally above the Sweet Spot at intersection of Club Head Component face surface and Club Head Component top surface, being Target Line Front Point; and

6. next, return the Club Head Component to balance position on balance support device as located above and place said Instrument at Target Line Front Point, as marked above, draw a line on Club Head Component top surface, said line being Parallax Corrected Sweet Spot Target Line.

Claim 2. (Withdrawn)

Method to locate Incorrect Sweet Spot Target Line, on a Club Head Component, said Club Head Component having a bottom surface, top surface, face surface and hosel, but no grip or shaft or other components, comprising the following steps:

1. first, locate a level platform;
2. next locate conventional Club Head Component center of gravity, normally referred to as the Sweet Spot, said Sweet Spot having an axis of rotation, on a Club Head Component by use of a balance support device, said balance support device being from the group of devices that can be positioned to have an upward extending surface with cross sectional area small enough that it forms a point of balance, by the following steps;
 - a.. position the balance support device, on the level platform, in order that the upward extending surface is aimed in a vertical direction;
 - b. next, place the Club Head Component on the balance support device upward extending surface with the Club Head Component face surface facing downward;
 - c.. next, move the Club Head Component around on the balance support device upward extending surface until the Club Head Component is balanced;
 - d. next rotate the Club Head Component to confirm that the Club Head Component is balanced at the Sweet Spot Axis;
 - e. next, mark the Club Head Component face surface at the point of contact with the balance support device, when the Club Head Component is balanced, being the conventional Club Head Component center of gravity, normally referred to as the Sweet Spot;

3. next locate a shaft, place the Club Head Component with bottom surface resting on the Level Platform and insert said shaft into Club Head Component at hosel, then using a Conventional Instrument To Measure Angle Of Slope Above The Horizontal, said Instrument being a standard off the shelf item, adjust Club Head Component to have center line of shaft, at angle of intended use, again using said Instrument place said Instrument against Club Head Component face surface at point marked as Sweet Spot and mark the point that is vertically above the Sweet Spot at intersection of Club Head Component face surface and Club Head Component top surface, being Incorrect Target Line Front Point; and

4. next return the Club Head Component to balance position with the Sweet Spot on balance support device upward extending surface and using said Instrument, place said Instrument at Incorrect Target Line Front Point, as marked, and draw a line on Club Head Component top surface, said line being the Incorrect Sweet Spot Target Line.

Claim 3. (Original)

Golf Club with Parallax Corrected Sweet Spot Target Line markings, for use with a Golf Ball, to cause the Golf Ball to travel in the path of intended direction upon the Golf Club having impact with the Golf Ball comprising:

- a. a Golf Club, said Golf Club having a Club Head, a grip and shaft;
- b. said Club Head having a bottom surface, top surface, face surface, Sweet Spot on the face surface and a hosel; and
- c. said Club Head having a Line on the top surface, said Line on the top surface extending from a point, at the intersection of the face surface and the top surface, across the top surface and ending at a point, at the intersection of the top surface with the bottom surface, said point where the Line is at the intersection of said face surface and top surface is aligned with said Sweet Spot on the face surface when viewed by the user with the Golf Club, grip and shaft in the position of intended use, and further said Line is aligned with the path of intended direction for the Golf Ball upon the Golf Club having impact with the Golf Ball, said Line being the Parallax Corrected Sweet Spot Target Line.

Claim 4. (Original)

Golf Club with Parallax Corrected Sweet Spot Target Line markings, that may be seen as a visual aid as the Golf Club is used during a swing, for use with a Golf Ball, to cause the Golf Ball to travel in the path of intended direction upon the Golf Club having impact with the Golf Ball comprising:

- a. a Golf Club, said Golf Club having a Club Head, a grip and shaft;
- b. said Club Head having a bottom surface, top surface, face surface, Sweet Spot on the face surface and a hosel; and
- c. said Club Head having a Line on the top surface, the location of said Line on the top surface being determined as follows:
 - i. first, locate a level platform;
 - ii. next remove the grip and shaft from hosel at Club Head Component and locate center of gravity, normally referred to as the Sweet Spot said Sweet Spot having an axis of rotation, on a Club Head Component by use of a balance support device, said balance support device being from the group of devices that can be positioned to have an upward extending surface with cross sectional area small enough that it forms a point of balance, by the following steps;
 - iii.. position the balance support device, on the level platform, in order that the upward extending surface is aimed in a vertical direction;
 - iv. next, place the Club Head Component on the balance support device upward extending surface with the Club Head Component face surface facing downward;
 - v.. next, move the Club Head Component around on the balance support device

upward extending surface until the Club Head Component is balanced;

vi. next rotate the Club Head Component to confirm that the Club Head Component is balanced at the Sweet Spot Axis;

vii. next, mark the Club Head Component face surface at the point of contact with the balance support device, when the Club Head Component is balanced, being the conventional Club Head Component center of gravity, normally referred to as the Sweet Spot;

viii. next re-insert the shaft with grip at hosel , place the Club Head Component with Club Head Component bottom surface resting on the Level Platform, then using a Conventional Instrument To Measure Angle Of Slope Above The Horizontal, said Instrument being a standard off the shelf item, adjust Club Head Component to have center line of shaft, at angle of intended use, again using said Instrument place said Instrument against Club Head Component face surface at point marked as Sweet Spot and mark the point that is vertically above the Sweet Spot at intersection of Club Head Component face surface and Club Head Component top surface, being Incorrect Target Line Front Point;

ix. next remove the shaft and grip from the hosel and return the Club Head Component to balance position with the Sweet Spot on balance support device upward extending surface and using said Instrument, place said Instrument at Incorrect Target Line Front Point, as marked, and draw a line on Club Head Component top surface, said line being the Incorrect Sweet Spot Target Line;

x. next adjust Club Head Component to have center line of shaft at angle of intended use, using said Instrument place said Instrument against Club Head Component face surface at point marked as Sweet Spot, adjust the Instrument to be at Correct Sight Line angle,

said Correct Sight Line Angle being to correct for Parallax and mark the point, that is diagonally above the Sweet Spot at intersection of Club Head Component face surface and Club Head Component top surface, being Target Line Front Point; and

xi. next, return the Club Head Component to balance position on balance support device as located above and place said Instrument at Target Line Front Point, as marked above, draw a line on Club Head Component top surface, said line being Parallax Corrected Sweet Spot Target Line.

Claim 5. (Currently amended)

Golf Club with Parallax Corrected Sweet Spot Target Line markings, for use with a Golf Ball, to cause the Golf Ball to travel in the path of intended direction upon the Golf Club having impact with the Golf Ball as claimed in Claim 4 and in addition comprising the following:

d. said Parallax Corrected Sweet Spot Target Line having a length and a width, the width of said Parallax Corrected Sweet Spot Target Line ((may)) is able to be increased in either or both directions.

Claim 6. (Withdrawn)

Method to locate Face Line, on the top surface of a Club Head Component, said Club Head Component having a bottom surface, top surface, face surface, toe, heel and hosel, but no grip or shaft or other components, comprising the following steps:

1. first, locate a level platform;

2. next locate conventional Club Head Component center of gravity, normally referred to as the Sweet Spot, said Sweet Spot having an axis of rotation, on a Club Head Component by use of a balance support device, said balance support device being from the group of devices that can be positioned to have an upward extending surface with cross sectional area small enough that it forms a point of balance, by the following steps;

a.. position the balance support device, on the level platform, in order that the upward extending surface is aimed in a vertical direction;

b. next, place the Club Head Component on the balance support device upward extending surface with the Club Head Component face surface facing downward;

c.. next, move the Club Head Component around on the balance support device upward extending surface until the Club Head Component is balanced;

d. next rotate the Club Head Component to confirm that the Club Head Component is balanced at the Sweet Spot Axis;

e. next, mark the Club Head Component face surface at the point of contact with the balance support device, when the Club Head Component is balanced, being the conventional Club Head Component center of gravity, normally referred to as the Sweet Spot;

3. next select a Vertical Support Means, said means being from the group of supports

that may be frictionally secured to said level platform forming a vertical, perpendicular to said level platform, said means further providing a plurality of attachment points, and frictionally secure said means to said level platform; and

4. next using a Conventional Instrument To Measure Angle Of Slope Above The Horizontal, said Instrument being a standard off the shelf item, said Instrument having a horizontal edge and a vertical edge, frictionally attach said Instrument to said Vertical Support Means at one of the attachment points, said Instrument vertical edge being perpendicular to said level platform, adjust said Instrument horizontal edge to be parallel to said level platform and against the Club Head Component top surface a predetermined distance from the intersection of the Club Head Component top surface and the Club Head Component face surface, and draw a line, on said Club Head Component top surface, that is parallel to said level platform, said line being Face Line.

Claim 7. (Withdrawn)

Method to locate Face Line, on the top surface of a Club Head Component, said Club Head Component having a bottom surface, top surface, face surface, toe, heel and hosel, but no grip or shaft or other components, as claimed in Claim 6 comprising the following additional steps:

5. where the Conventional Instrument To Measure Angle Of Slope vertical edge is not perpendicular to said level platform, said horizontal edge has a first end and a second end, said first end being at the intersection with said vertical edge and said second end being furthest from said intersection; and

6. adjust said Instrument horizontal edge to have said second end closer to said level platform, at the Club Head Component heel, than said first end is at the Club Head Component toe, further position said horizontal edge second end against the Club Head Component top surface at the heel a predetermined distance from the intersection of the Club Head Component top surface and the Club Head Component face surface, and draw a line that increases the distance from the intersection of the Club Head Component top surface and Club Head Component face surface as the line approaches the toe, said line being Face Line Closed.

Claim 8. (Withdrawn)

Method to locate Face Line, on the top surface of a Club Head Component, said Club Head Component having a bottom surface, top surface, face surface, toe, heel and hosel, but no grip or shaft or other components, as claimed in Claim 6 comprising the following additional steps:

5. where the Conventional Instrument To Measure Angle Of Slope vertical edge is not perpendicular to said level platform, said horizontal edge has a first end and a second end, said first end being at the intersection with said vertical edge and said second end being furthest from said intersection; and

6. adjust said Instrument horizontal edge to have said second end further from said level platform, at the Club Head Component heel, than said first end is at the Club Head Component toe, further position said horizontal edge second end against the Club Head Component top surface at the heel a predetermined distance from the intersection of the Club Head Component top surface and the Club Head Component face surface, and draw a line that decreases the distance from the intersection of the Club Head Component top surface and Club Head Component face surface as the line approaches the toe, said line being Face Line Open.

Claim 9. (Withdrawn)

Golf Club with Face Line on Golf Club Head top surface, for use with a Golf Ball, said Face Line to act as a visual aid to assist the Golfer in aligning the Golf Club Head to the Golf Ball at rest, commonly known as the address position and being prior to the Golfer's swing and also prior to impact with the Golf Ball, to eliminate a hook or slice and cause the Golf Ball to travel in the path of intended direction upon the Golf Club having impact with the Golf Ball comprising:

- a. a Golf Club, said Golf Club having a Club Head, a grip and shaft;
- b. said Club Head having a bottom surface, top surface, face surface, an intersection of said top surface and said face surface, Sweet Spot on the face surface, heel, toe and a hosel; and
- c. said Club Head having a Line on the top surface, said Line on the top surface being a predetermined distance from the intersection of the top surface and the face surface, said Line being the Face Line.

Claim 10. (Withdrawn)

Golf Club with Face Line on Golf Club Head top surface, for use with a Golf Ball, said Face Line to act as a visual aid to assist the Golfer in aligning the Golf Club Head to the Golf Ball at rest, commonly known as the address position and being prior to the Golfer's swing and also prior to impact with the Golf Ball, to eliminate a hook or slice and cause the Golf Ball to travel in the path of intended direction upon the Golf Club having impact with the Golf Ball, as claimed in Claim 9 further comprising:

d. said Line on the top surface, forming an angle with the intersection of the top surface and the face surface, said Line being the Face Line Closed when the Line is closer to said intersection at the heel, and further being Face Line Open when the Line is closer to said intersection at the toe.

Claim 11. (Withdrawn)

Golf Club with Face Line on Golf Club Head top surface, for use with a Golf Ball, said Face Line to act as a visual aid to assist the Golfer in aligning the Golf Club Head to the Golf Ball at rest, commonly known as the address position and being prior to the Golfer's swing and also prior to impact with the Golf Ball, to eliminate a hook or slice and cause the Golf Ball to travel in the path of intended direction upon the Golf Club having impact with the Golf Ball comprising:

- a. a Golf Club, said Golf Club having a Club Head, a grip and shaft;
- b. said Club Head having a bottom surface, top surface, face surface, an intersection of said top surface and said face surface, Sweet Spot on the face surface, toe, heel and a hosel; and
- c. said Club Head having a Line on the top surface, said Line on the top surface being

determined as follows:

1. first, locate a level platform;
2. next locate conventional Club Head Component center of gravity, normally referred to as the Sweet Spot, said Sweet Spot having an axis of rotation, on a Club Head Component by use of a balance support device, said balance support device being from the group of devices that can be positioned to have an upward extending surface with cross sectional area small enough that it forms a point of balance, by the following steps;
 - i.. position the balance support device, on the level platform, in order that the upward extending surface is aimed in a vertical direction;
 - ii. next, place the Club Head Component on the balance support device upward extending surface with the Club Head Component face surface facing downward;

iii.. next, move the Club Head Component around on the balance support device upward extending surface until the Club Head Component is balanced;

iv. next rotate the Club Head Component to confirm that the Club Head Component is balanced at the Sweet Spot Axis;

v. next, mark the Club Head Component face surface at the point of contact with the balance support device, when the Club Head Component is balanced, being the conventional Club Head Component center of gravity, normally referred to as the Sweet Spot;

3. next select a Vertical Support Means, said means being from the group of supports that may be frictionally secured to said level platform forming a vertical, perpendicular to said level platform, said means further providing a plurality of attachment points, and frictionally secure said means to said level platform;

4. next using a Conventional Instrument To Measure Angle Of Slope Above The Horizontal, said Instrument being a standard off the shelf item, said Instrument having a horizontal edge and a vertical edge, frictionally attach said Instrument to said Vertical Support Means at one of the attachment points, said Instrument vertical edge being perpendicular to said level platform, adjust said Instrument horizontal edge to be against the Club Head Component top surface a predetermined distance from the intersection of the Club Head Component top surface and the Club Head Component face surface, and draw a line that is parallel to said level platform, said line being Face Line; and

d. said Face Line having a length and a width, the width of said Face Line may be increased in either or both directions.

Claim 12. (Withdrawn)

Golf Club with Face Line on Golf Club Head top surface, for use with a Golf Ball, said Face Line to act as a visual aid to assist the Golfer in aligning the Golf Club Head to the Golf Ball at rest, commonly known as the address position and being prior to the Golfer's swing and also prior to impact with the Golf Ball, to eliminate a hook or slice and cause the Golf Ball to travel in the path of intended direction upon the Golf Club having impact with the Golf Ball, as claimed in Claim 11, further comprising:

e. where a clear material, having a top surface and a bottom surface, said bottom surface being coated with a conventional adhesive material that permits easy removal and re application, is placed on said Club Head top surface prior to the line being drawn, causing said line to be drawn on the top surface of said clear material; and

f. said clear material is removed from said Club Head top surface and re applied to said Club Head top surface with said Line forming an angle with the intersection of the top surface and the face surface, said Line being the Face Line Closed when the Line is closer to said intersection at the heel, and further being Face Line Open when the Line is closer to said intersection at the toe.

Claim 13 (Withdrawn)

Golf Club with Face Line on Golf Club Head top surface, for use with a Golf Ball, said Face Line to act as a visual aid to assist the Golfer in aligning the Golf Club Head to the Golf Ball at rest, commonly known as the address position and being prior to the Golfer's swing and also prior to impact with the Golf Ball, to eliminate a hook or slice and cause the Golf Ball to travel in the path of intended direction upon the Golf Club having impact with the Golf Ball, as claimed in Claim 11, further comprising:

e. where a colored material, being a color from the group that contrasts with the color of the Club Head, having a top surface and a bottom surface, said bottom surface being coated with a conventional adhesive material that permits easy removal and re application, further having a length and width said length and width being predetermined, is placed on said Club Head top surface to form said Line; and

f. said colored material is removed from said Club Head top surface and re applied to said Club Head top surface with said Line forming an angle with the intersection of the top surface and the face surface, said Line being the Face Line Closed when the Line is closer to said intersection at the heel, and further being Face Line Open when the Line is closer to said intersection at the toe.

Claim 14. (Withdrawn)

Golf Club with Face Line on Golf Club Head top surface, for use with a Golf Ball, said Face Line to act as a visual aid to assist the Golfer in aligning the Golf Club Head to the Golf Ball at rest, commonly known as the address position and being prior to the Golfer's swing and also prior to impact with the Golf Ball, to eliminate a hook or slice and cause the Golf Ball to travel in the path of intended direction upon the Golf Club having impact with the Golf Ball, as claimed in Claim 11, further comprising:

e. where a colored material, being a color from the group that contrasts with the color of the Club Head, having a top surface and a bottom surface, said bottom surface being coated with a conventional adhesive material that permits the material to be fixedly adhered to a surface, further having a length and width said length and width being predetermined, is placed on said Club Head top surface to form said Line; and

f. said colored material is applied to said Club Head top surface with said Line forming an angle with the intersection of the top surface and the face surface, said Line being the Face Line Closed when the Line is closer to said intersection at the heel, and further being Face Line Open when the Line is closer to said intersection at the toe.

Claim 15. (Withdrawn)

Method to locate Parallax Corrected Sweet Spot Target Line, on a Club Head Component, said Club Head Component having a bottom surface, top surface, face surface and hosel, but no grip or shaft or other components, as claimed in Claim 1, said method further locating Face Line, on the top surface of said Club Head Component, comprising the following additional steps:

1. first, locate a level platform;
2. next locate conventional Club Head Component center of gravity, normally referred to as the Sweet Spot, said Sweet Spot having an axis of rotation, on a Club Head Component by use of a balance support device, said balance support device being from the group of devices that can be positioned to have an upward extending surface with cross sectional area small enough that it forms a point of balance, by the following steps;
 - a.. position the balance support device, on the level platform, in order that the upward extending surface is aimed in a vertical direction;
 - b. next, place the Club Head Component on the balance support device upward extending surface with the Club Head Component face surface facing downward;
 - c.. next, move the Club Head Component around on the balance support device upward extending surface until the Club Head Component is balanced;
 - d. next rotate the Club Head Component to confirm that the Club Head Component is balanced at the Sweet Spot Axis;
 - e. next, mark the Club Head Component face surface at the point of contact with the balance support device, when the Club Head Component is balanced, being the conventional

Club Head Component center of gravity, normally referred to as the Sweet Spot;

3. next select a Vertical Support Means, said means being from the group of supports that may be frictionally secured to said level platform forming a vertical, perpendicular to said level platform, said means further providing a plurality of attachment points, and frictionally secure said means to said level platform; and

4. next using a Conventional Instrument To Measure Angle Of Slope Above The Horizontal, said Instrument being a standard off the shelf item, said Instrument having a horizontal edge and a vertical edge, frictionally attach said Instrument to said Vertical Support Means at one of the attachment points, said Instrument vertical edge being perpendicular to said level platform, adjust said Instrument horizontal edge to be parallel to said level platform and against the Club Head Component top surface a predetermined distance from the intersection of the Club Head Component top surface and the Club Head Component face surface, and draw a line, on said Club Head Component top surface, that is parallel to said level platform, said line being Face Line.

Claim 16. (Withdrawn)

Method to locate Incorrect Sweet Spot Target Line, on a Club Head Component, said Club Head Component having a bottom surface, top surface, face surface and hosel, but no grip or shaft or other components, as claimed in Claim 2, said method further locating Face Line, on the top surface of said Club Head Component, comprising the following additional steps:

1. first, locate a level platform;

2. next locate conventional Club Head Component center of gravity, normally referred to as the Sweet Spot, said Sweet Spot having an axis of rotation, on a Club Head Component by use of a balance support device, said balance support device being from the group of devices that can be positioned to have an upward extending surface with cross sectional area small enough that it forms a point of balance, by the following steps;

- a.. position the balance support device, on the level platform, in order that the upward extending surface is aimed in a vertical direction;

- b. next, place the Club Head Component on the balance support device upward extending surface with the Club Head Component face surface facing downward;

- c.. next, move the Club Head Component around on the balance support device upward extending surface until the Club Head Component is balanced;

- d. next rotate the Club Head Component to confirm that the Club Head Component is balanced at the Sweet Spot Axis;

- e. next, mark the Club Head Component face surface at the point of contact with the balance support device, when the Club Head Component is balanced, being the conventional Club Head Component center of gravity, normally referred to as the Sweet Spot;

3. next select a Vertical Support Means, said means being from the group of supports that may be frictionally secured to said level platform forming a vertical, perpendicular to said level platform, said means further providing a plurality of attachment points, and frictionally secure said means to said level platform; and

4. next using a Conventional Instrument To Measure Angle Of Slope Above The Horizontal, said Instrument being a standard off the shelf item, said Instrument having a horizontal edge and a vertical edge, frictionally attach said Instrument to said Vertical Support Means at one of the attachment points, said Instrument vertical edge being perpendicular to said level platform, adjust said Instrument horizontal edge to be parallel to said level platform and against the Club Head Component top surface a predetermined distance from the intersection of the Club Head Component top surface and the Club Head Component face surface, and draw a line, on said Club Head Component top surface, that is parallel to said level platform, said line being Face Line.

Claim 17. (Original)

Golf Club with Parallax Corrected Sweet Spot Target Line and Face Line markings, that may be seen as a visual aid as the Golf Club is used during a swing, for use with a Golf Ball, to cause the Golf Ball to travel in the path of intended direction upon the Golf Club having impact with the Golf Ball comprising:

1. a Golf Club, said Golf Club having a Club Head, a grip and shaft;
2. said Club Head having a bottom surface, top surface, face surface, Sweet Spot on the face surface and a hosel; and
3. said Club Head having Lines on the top surface, the location of said Lines on the top surface being determined as follows:
 - A. first, locate a level platform;
 - B. next locate conventional Club Head Component center of gravity, normally referred to as the Sweet Spot, said Sweet Spot having an axis of rotation, on a Club Head Component by use of a balance support device, said balance support device being from the group of devices that can be positioned to have an upward extending surface with cross sectional area small enough that it forms a point of balance, by the following steps;
 - a.. position the balance support device, on the level platform, in order that the upward extending surface is aimed in a vertical direction;
 - b. next, place the Club Head Component on the balance support device upward extending surface with the Club Head Component face surface facing downward;
 - c.. next, move the Club Head Component around on the balance support device upward extending surface until the Club Head Component is balanced;

d. next rotate the Club Head Component to confirm that the Club Head Component is balanced at the Sweet Spot Axis;

e. next, mark the Club Head Component face surface at the point of contact with the balance support device, when the Club Head Component is balanced, being the conventional Club Head Component center of gravity, normally referred to as the Sweet Spot;

C. next locate a shaft, place the Club Head Component with bottom surface resting on the Level Platform and insert said shaft into Club Head Component at hosel, then using a Conventional Instrument To Measure Angle Of Slope Above The Horizontal, said Instrument being a standard off the shelf item, adjust Club Head Component to have center line of shaft, at angle of intended use, again using said Instrument place said Instrument against Club Head Component face surface at point marked as Sweet Spot and mark the point that is vertically above the Sweet Spot at intersection of Club Head Component face surface and Club Head Component top surface, being Incorrect Target Line Front Point;

D. next return the Club Head Component to balance position with the Sweet Spot on balance support device upward extending surface and using said Instrument, place said Instrument at Incorrect Target Line Front Point, as marked, and draw a line on Club Head Component top surface, said line being the Incorrect Sweet Spot Target Line;

E. next adjust Club Head Component to have center line of shaft at angle of intended use, using said Instrument place said Instrument against Club Head Component face surface at point marked as Sweet Spot, adjust the Instrument to be at Correct Sight Line angle, said Correct Sight Line Angle being to correct for Parallax and mark the point, that is diagonally above the Sweet Spot at intersection of Club Head Component face surface and Club Head Component top

surface, being Target Line Front Point;

F. next, return the Club Head Component to balance position on balance support device as located above and place said Instrument at Target Line Front Point, as marked above, draw a line on Club Head Component top surface, said line being Parallax Corrected Sweet Spot Target Line;

G. next, using the same level platform and having located conventional Club Head Component center of gravity, using said point of balance select a Vertical Support Means, said means being from the group of supports that may be frictionally secured to said level platform forming a vertical, perpendicular to said level platform, said means further providing a plurality of attachment points, and frictionally secure said means to said level platform; and

H. next using a Conventional Instrument To Measure Angle Of Slope Above The Horizontal, said Instrument being a standard off the shelf item, said Instrument having a horizontal edge and a vertical edge, frictionally attach said Instrument to said Vertical Support Means at one of the attachment points, said Instrument vertical edge being perpendicular to said level platform, adjust said Instrument horizontal edge to be parallel to said level platform and against the Club Head Component top surface a predetermined distance from the intersection of the Club Head Component top surface and the Club Head Component face surface, and draw a line, on said Club Head Component top surface, that is parallel to said level platform, said line being Face Line.

Claim 18. (Withdrawn)

The Correct Method to use Markings on face surface of Golf Club Head, being the Sweet Line, Ground Sweet Spot or Tee Sweet Spot, to align Golf Club Head to Golf Ball, at a predetermined lie angle and swing plane, regardless of whether the golf ball is imbedded in the ground, partially imbedded in the ground, resting on the ground, resting on a tee, or any position within the range of being imbedded in the ground to resting on a tee, comprising the following steps:

a. first locate a golf ball, a golf Tee and a Golf Club said Golf Club having a shaft, a grip and a Golf Club Head, said Head having a top surface, face surface, bottom surface, toe and heel said golf club having a center of mass for the combined shaft, grip and Head; said Golf Club Head having markings on the face surface, and said golf club head face surface having markings indicating ideal contact points for impact with the golf ball regardless of whether the golf ball is imbedded in the ground, partially imbedded in the ground, resting on the ground, resting on a tee, or any position within the range of being imbedded in the ground to resting on a tee; said Golf Club Head face surface markings being determined as follows:

i.) prepare a level working surface being a level platform with a hole therein said level platform being of sufficient size to accommodate a complete golf club having a shaft, said shaft having a center line, grip and head, said golf club grip having a top end, said golf club head having a top surface, face surface, bottom surface, toe and heel;

ii.) obtain a sweet line locator, said sweet line locator having a donut shaped stabilizer base member said stabilizer base member having a flat bottom surface, a top surface, a continuous opening of uniform diameter running from the flat bottom surface to the top surface

and with a frictional device positioned at the top surface at the continuous opening of uniform diameter, said sweet line locator further having a rigid rod of sufficient diameter to engage frictionally within the continuous opening of uniform diameter and also being of sufficient length to extend both above and below the stabilizer base member said rigid rod having an upward end and a downward end;

iii.) place the sweet line locator on the level platform with the rigid rod extending both downward thru the hole in the level platform and upward above the top surface of the stabilizer base member;

iv.) place golf club with grip top end on level platform and golf club head face surface on upward end of the rigid rod;

v.) adjust the position of the rigid rod in order that the golf club head face surface is parallel to the level platform;

vi.) adjust the point of contact of the golf club face surface and rigid rod until the golf club balances and mark the balance point of contact on the golf club face surface;

vii.) repeat the previous step at least one more time to obtain at least one more balance point of contact;

viii.) remove the golf club from the rigid rod, connect the points to form a line or series of points extending diagonally across the golf club face surface, said line or series of points being the Sweet Line;

ix.) position the golf club in the position of intended use, said position of intended use being that position when the shaft center line is at a predetermined angle with the ground, and transpose the desired impact point golf ball heights, said desired impact point golf

ball heights including but not limited to one for a ball resting on the ground and one for a ball resting on a tee, onto the golf club face surface using lines or series of points that are parallel to the desired ground surface;

x.) mark the intersections of the diagonal line or points with the parallel lines or points, one being the Ground Sweet Spot and one being the Tee Sweet Spot;

b. next place the golf ball on the ground, said golf ball having a desired impact point;

c. next grip the Golf Club by the grip and shaft and assume normal swing stance;

d. next address the Golf Club Head to the golf ball with the Ground Sweet Spot on the Golf Club Head face surface aligned to, but not, making contact with the golf ball at the golf ball desired impact point; and

e. next using a normal back swing, and then forward swing of the Golf Club, have the Golf Club Head strike the Golf Ball, with the Ground Sweet Spot, on the Golf Club Head face surface, making contact with the Golf Ball at the desired impact point, and continuing the forward swing with a normal follow thru.

Claim 19. (Withdrawn)

The Correct Method to use Markings on face surface of Golf Club Head, being the Sweet Line, Ground Sweet Spot or Tee Sweet Spot, to align Golf Club Head to Golf Ball, at a predetermined lie angle and swing plane, regardless of whether the golf ball is imbedded in the ground, partially imbedded in the ground, resting on the ground, resting on a tee, or any position within the range of being imbedded in the ground to resting on a tee, as claimed in Claim 18 comprising the following additional steps:

- a. where the golf Tee is positioned in the ground with the Golf Ball resting thereon, and
- b. where the golfer moves with the Golf Club Head in the direction of the toe a distance sufficient to align the Sweet Line with the Golf Ball desired impact point, at the same time retaining the same lie angle and swing plane.

Claim 20. (Withdrawn)

Sweet Spot and Sweet Line Locator Face Tapping and Balance Plane Locator Tool for locating the Sweet Spot on a Golf Club Head component, Sweet Line on a Golf Club Head Face, also the True Sweet Spot on the Sweet Line, Face Target Line and Top Target Line, comprising as follows:

- a) a conventional golf ball, with an outer surface, said conventional golf ball having a cavity therein, said cavity entering from said outer surface and continuing to a pre determined point therein, said cavity having a cross section from the golf ball outer surface to said predetermined point; and
- b) a rod with a first end and a second end, said rod having a predetermined length and cross section, said cross section being sized and shaped to permit the first end of the rod to be placed securely within the cavity of said conventional golf ball, said first end of the rigid rod further being sized and shaped to be frictionally retained within said conventional golf ball cavity.

Claim 21. (Withdrawn)

Sweet Spot and Sweet Line Locator Face Tapping and Balance Plane Locator Tool for locating the Sweet Spot on a Golf Club Head component, Sweet Line on a Golf Club Head Face, the True Sweet Spot on the Sweet Line, Face Target Line and Top Target Line, comprising as follows:

as claimed in Claim 20 where the second end of said uniform rigid rod is a flat surface.

Claim 22. (Withdrawn)

Sweet Spot and Sweet Line Locator Face Tapping and Balance Plane Locator Tool for locating the Sweet Spot on a Golf Club Head component, Sweet Line on a Golf Club Head Face, the True Sweet Spot on the Sweet Line, Face Target Line and Top Target Line, comprising as follows:

as claimed in Claim 20 where the second end of said uniform rigid rod is a cupped surface.

Claim 23. (Withdrawn)

Method for locating the Sweet Line, being the leading Edge of the Balance Plane, on a golf Club Head Face Surface, using Sweet Spot and Sweet Line Locator Face Tapping and Balance Plane Locator Tool for locating the Sweet Spot on a Golf Club Head component, Sweet Line on a Golf Club Head Face, the True Sweet Spot on the Sweet Line, Face Target Line and Top Target Line, comprising the following steps:

a) locate a golf club having club head, shaft and grip, said club head having a face surface, said club head face surface having a lower face edge, an upper face edge, a toe edge and a heel edge;

b) locate Sweet Spot and Sweet Line Locator Face Tapping and Balance Plane Locator Tool being;

i) a conventional golf ball, with an outer surface and a center, said conventional golf ball having a cavity therein, said cavity entering from said outer surface and continuing to a point at said center, said cavity having a uniform cross section from the golf ball outer surface to said center; and

ii) a uniform rod with a first end and a second end, said uniform rod having a predetermined length and cross section, said cross section being sized and shaped to permit the first end of the uniform rod to be placed within the conventional golf ball cavity, said first end of the uniform rigid rod further being sized and shaped to be frictionally retained within said conventional golf ball cavity;

c) freely suspend the golf club from the grip allowing the shaft to be in a nearly vertical position, with the grip at the apex and the club head at the nadir;

d) hold the Sweet Spot and Sweet Line Locator Face Tapping and balance Plane Locator Tool by the second end of the rigid rod;

e) tap the golf ball of the Sweet Spot and Sweet Line Locator Face Tapping and balance Plane Locator Tool against the golf club face surface along the lower face edge, finding a point where the golf club does not rotate after being struck, mark the point of non rotation on said lower face edge;

f) tap the golf ball of the Sweet Spot and Sweet Line Locator Face Tapping and balance Plane Locator Tool against the golf club face surface along the upper face edge, finding a point where the golf club does not rotate after being struck, mark the point of non rotation on said upper face edge;

g) draw a line across the club head face surface connecting the point of non rotation on the upper face edge with the point of non rotation on the lower face edge, the resulting line being the Sweet Line that is the leading edge of the Balance Plane.

Claim 24. (Withdrawn)

Method for locating the Sweet Line, being the leading Edge of the Balance Plane, on a golf Club Head Face Surface, using Sweet Spot and Sweet Line Locator Face Tapping and Balance Plane Locator Tool for locating the Sweet Spot on a Golf Club Head component, Sweet Line on a Golf Club Head Face, the True Sweet Spot on the Sweet Line, Face Target Line and Top Target Line, comprising the following steps:

a) locate a golf club having club head, shaft and grip, said club head having a face surface, said club head face surface having a lower face edge, an upper face edge, a toe edge and a heel edge;

b) locate Sweet Spot and Sweet Line Locator Face Tapping and Balance Plane Locator Tool being;

i) a conventional golf ball, with an outer surface and a center, said conventional golf ball having a cavity therein, said cavity entering from said outer surface and continuing to a point at said center, said cavity having a uniform cross section from the golf ball outer surface to said center; and

ii) a uniform rod with a first end and a second end, said uniform rod having a predetermined length and cross section, said cross section being sized and shaped to permit the first end of the uniform rod to be placed within the conventional golf ball cavity, said first end of the uniform rigid rod further being sized and shaped to be frictionally retained within said conventional golf ball cavity;

c) freely suspend the golf club from the grip allowing the shaft to be in a nearly vertical position, with the grip at the apex and the club head at the nadir;

d) hold the Sweet Spot and Sweet Line Locator Face Tapping and balance Plane Locator Tool by the second end of the rigid rod;

e) tap the golf ball of the Sweet Spot and Sweet Line Locator Face Tapping and balance Plane Locator Tool against the golf club face surface in the area that is between the toe edge and the heel edge, finding at least three points where the golf club does not rotate after being struck, mark the points of non rotation on said face surface;

f) draw a series of lines across the club head face surface connecting the points of non rotation on the face surface, the resulting lines being the Sweet Line that is the leading edge of the Balance Plane.